

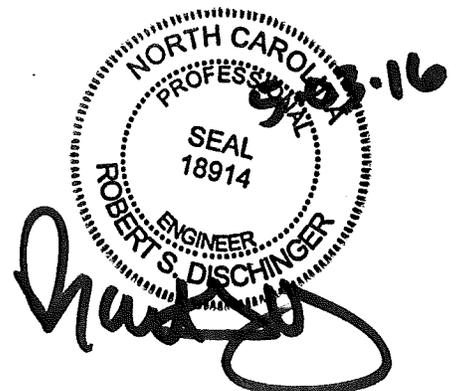
**L.C.I.D. OPERATION PLAN**

**WINFREE ROAD LANDFILL  
(AMENDMENT TO PERMIT #41I-LCID)  
PHASE 2B**

**OWNER/OPERATOR  
WINFREE ROAD LANDFILL, INC.  
7965 WINFREE ROAD  
SUMMERFIELD, NORTH CAROLINA 27358  
OFFICE PHONE (336) 643-3791  
CELL PHONE (336) 362-2299  
CONTACT: TIMMY FRIDDLE**

**PREPARED BY  
EVANS ENGINEERING, INC.  
4609 DUNDAS DRIVE  
GREENSBORO, NORTH CAROLINA 27407  
PHONE (336) 854-8877  
FAX (336) 854-8876  
CONTACT: BOB DISCHINGER  
rsd@evans-eng.com**

**MAY 3, 2016**



# WINFREE ROAD LANDFILL CONTACT INFORMATION

**MAY 3, 2016**

## Contact Information:

Owner: Winfree Road Landfill, Inc.  
Contact: Timmy Friddle  
7965 Winfree Road  
Summerfield, North Carolina 27358  
Office: (336) 643-3791  
Cell: (336) 362-2299

Attendant: Office: (336) 643-3791  
Timmy Friddle: (336) 362-2299

Site Emergency: Jerry Friddle: (336) 362-4882  
Timmy Friddle: (336) 362-2299

Police: Guilford County Sheriff's Office (336) 641-3694

Fire: Summerfield Fire Department (336) 643-4341

Office hours: By appointment only. Gate opens at 8am, closes at 5pm,  
Monday – Friday

**The following requirements which shall be approved and followed as specified for Winfree Road Landfill, shall be the Operations Plan.**

1. The attendant will always be on site while the landfill is open to inspect each and every delivery for acceptable material compliance, such as, land clearing waste, inert debris, untreated wood and yard trash only, generated from Guilford County, Rockingham County and Alamance County. The disposal of any other material other than outlined above is strictly prohibited.
2. Solid waste shall be restricted to the smallest possible area and compacted as densely as practical in cells. The cell sizes shall be 20' to 30' wide at height increments of 5'. The side slopes of the landfill shall not be steeper than 3' horizontal to 1' vertical. Install diversion channels and slope drains as needed as the height of the landfill increases.
3. Adequate soil cover shall be applied monthly, or when the active area reaches one acre in size, whichever occurs first.
4. 120 calendar days after completion of any phase of disposal operations, or upon revocation of a permit, the disposal area shall be covered with a minimum of 2' of suitable soil cover sloped to allow surface water runoff in a controlled manner. The Division may require further action in order to correct any condition which is or may become injurious to the public health, or a nuisance to the community.
5. Adequate erosion control measures, structures or devices shall be utilized to prevent silt from leaving the site and to prevent excessive on site erosion.
6. Provisions for a ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar upon completion of any phase of landfill development.
7. Access to the site shall be controlled by a gate sufficient to keep intruders and otherwise unauthorized personnel out and to prevent hazardous waste from being placed on the site. The site will be open only when the trained attendant is on duty. Access roads shall be of all-weather construction and properly maintained.
8. All excavating and filling of LCID materials will be conducted in a manner that prevents surface water runoff from standing or impounding over waste and it shall be diverted from the working face of the operation.
9. No waste shall be disposed of in water.
10. Open burning of solid waste is prohibited.
11. The owner will take all measures to prevent an accidental fire and will report and control such a fire at all times.

12. The concentration of explosive gases generated by the facility shall not exceed:

Twenty-five percent of the lower explosive limit for the gases in the facility structures.

The lower explosive limit for the gases at the property boundary.

[SWS Reference Rule – 15A NCAC 13B .0566(13)].

13. Leachate shall be properly managed on site employing current best management practices.
14. A sign shall be posted at the entrance showing the permit number of LCID landfill and the contact name and number in case of an emergency, description and types of waste excepted, the types of waste prohibited and operating hours.
15. Should the Division deem it necessary, ground water or surface water monitoring, or both, may be required as provided for under Rules .0601 and .0602 of this Subchapter.

[SWS Reference Rule – 15A NCAC 13B .0566(15)]

16. Any unacceptable waste shall be removed from landfill and disposed of in onsite dumpster, dumpster to be hauled off as needed, unacceptable waste such as waste tires, appliances, construction and demolition waste, and household garbage must not be disposed in the LCID landfill.
17. Surface water runoff is controlled with diversion berms directing runoff to temporary rock dams before discharging offsite. No offsite surface water flows over waste areas.
18. The official operating file including copies of all permits, operations plan, inspections, correspondence and site drawings will be located onsite in field office.  
Equipment onsite: **DOZERS = (1) CAT D6**  
**LOADERS = (1) CAT 963**
19. See Phasing Data Table on Engineering Plans for LCID waste volume and cover soil volume for each 5-year phase.

**OPERATIONAL REQUIREMENTS FOR THIS L.C.I.D. LANDFILL**

1. OPERATIONAL PLANS SHALL BE APPROVED AND FOLLOWED AS SPECIFIED FOR THIS FACILITY.
2. THIS FACILITY IS PERMITTED TO EXCEPT DISPOSAL OF LAND CLEARING WASTE, CONCRETE, BRICK, CONCRETE BLOCK, NON-CONTAMINATED SOIL, GRAVEL, AND ROCK, UNTREATED AND UNPAINTED WOOD, AND YARD TRASH. YARD TRASH IS DEFINED AS SOLID WASTE RESULTING FROM LANDSCAPING AND YARD MAINTENANCE SUCH AS GRASS, TREE LIMBS AND SIMILAR MATERIAL.
3. FACILITY RECEIVES WASTE GENERATED FROM ALAMANCE, GUILFORD AND ROCKINGHAM COUNTIES
4. WASTE SHALL BE RESTRICTED TO THE SMALLEST AREA FEASIBLE AND COMPACTED AS DENSELY AS PRACTICAL INTO CELLS.
5. ADEQUATE SOIL COVER SHALL BE APPLIED MONTHLY, OR WHEN THE ACTIVE AREA REACHES ONE ACRE IN SIZE, WHICHEVER OCCURS FIRST.
6. 120 CALENDAR DAYS AFTER COMPLETION OF ANY PHASE OF DISPOSAL OPERATIONS, OR UPON REVOCATION OF A PERMIT, THE DISPOSAL AREA SHALL BE COVERED WITH A MINIMUM OF (2) TWO FEET\* OF SUITABLE SOIL COVER SLOPED TO ALLOW SURFACE WATER RUNOFF IN A CONTROLLED MANNER. THE DIVISION MAY REQUIRE FURTHER ACTION IN ORDER TO CORRECT ANY CONDITION WHICH IS OR MAY BECOME INJURIOUS TO THE PUBLIC HEALTH, OR A NUISANCE TO THE COMMUNITY (\*GUILFORD COUNTY REQUIRES (2) TWO FEET OF COVER).
7. ADEQUATE EROSION CONTROL MEASURES, STRUCTURES, OR DEVICES SHALL BE UTILIZED TO PREVENT SILT FROM LEAVING THE SITE AND TO PREVENT EXCESSIVE ON-SITE EROSION.
8. THE DEADLINES FOR THE ESTABLISHMENT OF A GROUND COVER SHALL BE 15 WORKING DAYS AND 30 CALENDAR DAYS FOR TEMPORARY GROUND COVER (SLOPES) AND 15 WORKING DAYS AND 90 CALENDAR DAYS FOR PERMANENT GROUND COVER.
9. THIS FACILITY SHALL BE ADEQUATELY SECURED BY MEANS OF GATES, CHAINS, BARRIERS, FENCES, ETC. TO PREVENT UNAUTHORIZED ACCESS EXCEPT WHEN AN OPERATOR IS ON DUTY. AN ATTENDANT SHALL BE ON DUTY AT ALL TIMES WHILE THE LANDFILL IS OPEN FOR PUBLIC USE TO ASSURE COMPLIANCE WITH THE OPERATIONAL REQUIREMENTS AND TO PREVENT ACCEPTANCE OF UNAUTHORIZED WASTES.
10. ACCESS ROADS SHALL BE OF ALL-WEATHER CONSTRUCTION AND PROPERLY MAINTAINED.
11. ANY SURFACE WATER SHALL BE DIVERTED FROM THE WORKING FACE AND SHALL NOT BE IMPOUNDED OVER WASTE.
12. SOLID WASTE SHALL NOT BE DISPOSED OF IN WATER.
13. OPEN BURNING OF SOLID WASTE IS PROHIBITED.
14. THE CONCENTRATION OF EXPLOSIVE GASES GENERATED BY THIS FACILITY SHALL NOT EXCEED: (a) TWENTY-FIVE PERCENT OF THE LOWER LIMIT FOR THE GASES IN THE FACILITY STRUCTURES; (b) THE LOWER EXPLOSIVE LIMIT FOR THE GASES AT THE PROPERTY BOUNDARY.
15. LEACHATE SHALL BE PROPERLY MANAGED ON-SITE THROUGH THE USE OF CURRENT BEST MANAGEMENT PRACTICES.
16. SHOULD THE DIVISION DEEM IT NECESSARY, GROUND WATER OR SURFACE WATER MONITORING, OR BOTH, MAY BE REQUIRED AS PROVIDED FRO UNDER RULES .0801 AND .0802 OF THE NORTH CAROLINA SOLID WASTE MANAGEMENT RULES.
17. A SIGN SHALL BE POSTED AT THE FACILITY ENTRANCE SHOWING THE CONTACT NAME AND NUMBER IN CASE OF AN EMERGENCY AND THE PERMIT NUMBER.
18. OPERATION OF THIS FACILITY SHALL CONFORM TO THE NORTH CAROLINA DIVISION OF SOLID WASTE MANAGEMENT RULES AND REGULATIONS.
19. THE FINAL SLOPE OF THE L.C.I.D. LANDFILL SHALL BE A MAXIMUM OF A 3:1 SLOPE.
20. VEHICLES SHALL NOT EXCEED SAFE SPEEDS FOR THE MATERIALS BEING HAULED AND SHALL BE COVERED OR SECURED WITH SUITABLE DEVICES WHEN ON THE PUBLIC ROADWAY.
21. THE SITE MUST BE INSPECTED BY THE OWNER/OPERATOR AT LEAST ONCE EVERY TEN WORKING DAYS.
22. EFFECTIVE VECTOR CONTROL MEASURES SHALL BE APPLIED TO CONTROL FLIES, RODENTS AND OTHER INSECTS OR VERMIN WHEN NECESSARY.
23. NO HAZARDOUS MATERIALS OR INFECTIOUS WASTE SHALL BE ACCEPTED OR DISPOSED OF IN THE LANDFILL.

**CLOSURE REQUIREMENTS FOR THIS L.C.I.D. LANDFILL**

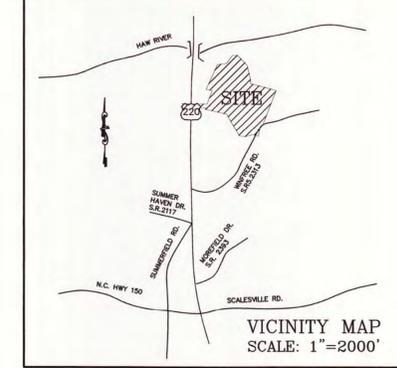
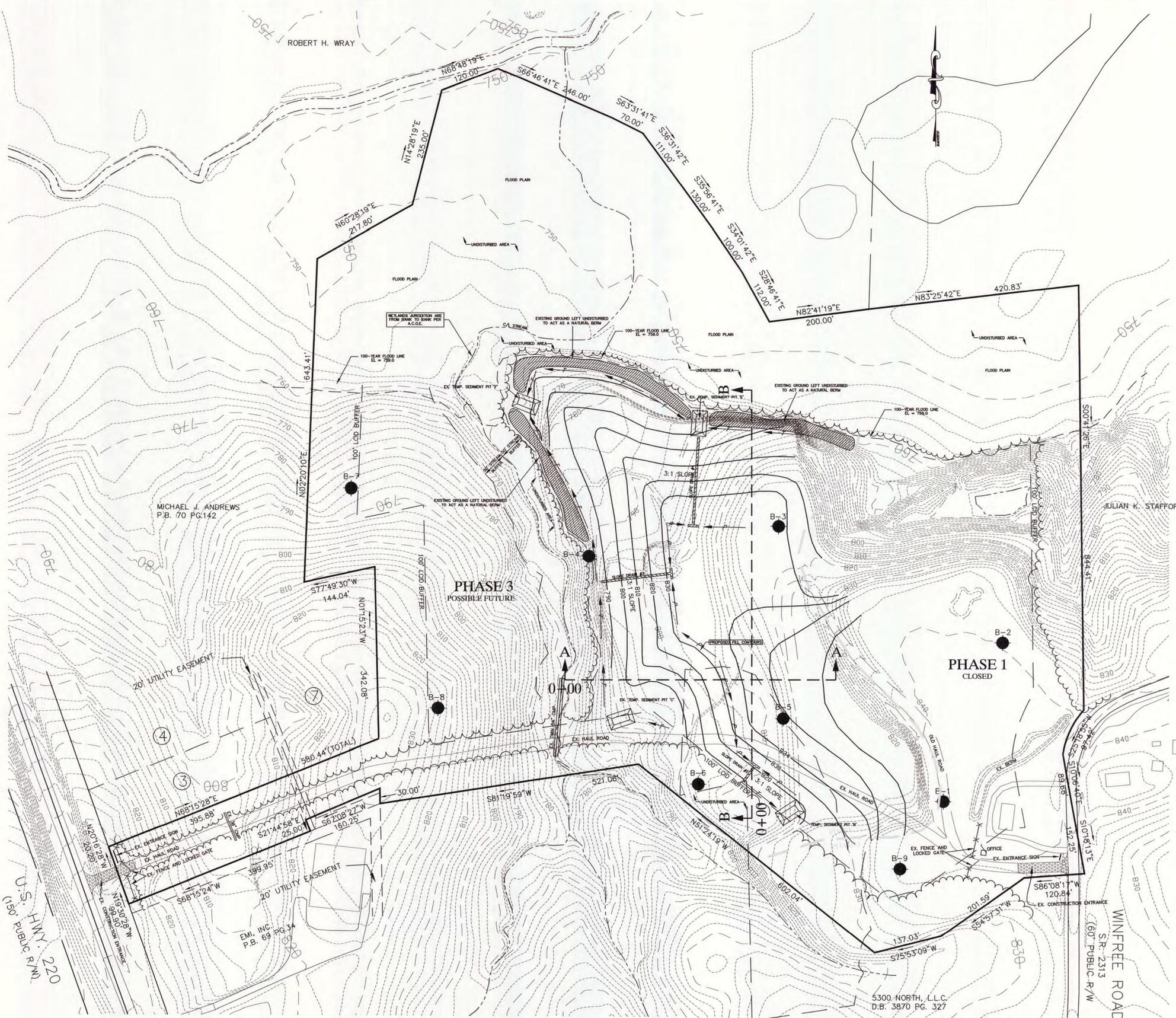
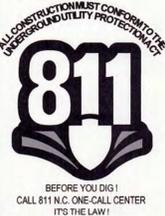
- ANY PERSON OPERATING OR HAVING OPERATED A L.C.I.D. WASTE DISPOSAL OR A PERSON WHO OWNS LAND ON WHICH SUCH A LANDFILL IS OR HAS BEEN IN OPERATION SHALL CLOSE THE SITE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
1. IF THE SITE IS DEEMED SUITABLE BY THE NORTH CAROLINA DIVISION OF SOLID WASTE MANAGEMENT, COMPACT AND COVER EXISTING SOLID WASTE IN PLACE WITH (2) TWO FEET\* OR MORE OF SUITABLE COMPACTED EARTH.
  2. IF THE SITE IS DEEMED UNSUITABLE BY NORTH CAROLINA DIVISION OF SOLID WASTE MANAGEMENT, REMOVE AND PLACE SOLID WASTE IN AN APPROVED WASTE SITE OR FACILITY.
  3. IMPLEMENT EROSION CONTROL MEASURES BY GRADING AND SEEDING IN ACCORDANCE WITH THE PROVISIONS OF NORTH CAROLINA DIVISION OF SOLID WASTE MANAGEMENT AND GUILFORD COUNTY PLANNING AND DEVELOPMENT DEPARTMENT.
  4. THE AREA MUST BE SECURED TO PREVENT FUTURE DUMPING AT THE SITE.
  5. POST SIGNS INDICATING CLOSURE.
  6. ESTABLISH FINAL SLOPE GRADES AT NO STEEPER THAN 3:1 SLOPE AND STABILIZE SLOPES WITH VEGETATIVE COVER OR MECHANICAL METHODS.
- \* GUILFORD COUNTY REGULATIONS REQUIRE TWO (2) FEET OF FINAL SOIL COVER.

**WINFREE ROAD LANDFILL, INC.**  
PRIVATE  
LAND CLEARING & INERT DEBRIS LANDFILL  
PERMIT NUMBER:  
APPROVED DISPOSAL MATERIALS:  
LAND CLEARING WASTE, CONCRETE, BRICK,  
CONCRETE BLOCK, UNCONTAMINATED SOIL, GRAVEL  
AND ROCK, UNTREATED AND UNPAINTED WOOD, AND  
YARD TRASH. YARD TRASH IS DEFINED AS SOLID WASTE  
RESULTING FROM LANDSCAPING AND YARD MAINTENANCE  
SUCH AS GRASS, TREE LIMBS AND SIMILAR MATERIAL.  
HOURS OF OPERATION:  
6:00 AM - 7:00 PM, MONDAY - FRIDAY  
EMERGENCY CONTACT PERSON:  
JERRY FRIDDLE - (336) 643-3791  
NO UNAUTHORIZED DUMPING

ENTRANCE SIGN DETAIL  
NOT TO SCALE

**NOTES:**

1. GROUND WATER INFORMATION OBTAINED FROM HYDROGEOLOGIC ASSESSMENT REPORT BY ECS, LTD. DATED 11-12-2001



- SITE DATA:**
1. TOTAL AREA = 43.54 ACRES
  2. TAX MAP NO.: ACL-1-39-915N-2
  3. CURRENT ZONING: AG-SP (CASE# 31-97-SP)
  4. DEED REFERENCE: DB 4530, PG. 0585
  5. SOIL TYPES: C62-2 - GECIL SANDY CLAY LOAM  
Ch - CHEWACLA SANDY LOAM  
Wc - WILKES SANDY LOAM  
Wde - WILKES SANDY LOAM  
Mgc - MADISON SANDY LOAM
  6. TOTAL L.C.I.D. LANDFILL AREA = ±21.5 ACRES
  7. TOTAL L.C.I.D. LANDFILL VOLUME = XXX,XXX CF
  8. DISTURBED AREA = ±23.5 ACRES
  9. USE AFTER COMPLETION = PASTURE
  10. DISTANCE TO FLOODWAY = 0'
  11. WATERSHED = UNPROTECTED
  12. BOUNDARY INFORMATION WAS TAKEN FROM DEEDS. NO FIELD RUN BOUNDARY HAS BEEN PERFORMED BY EVANS ENGINEERING AT THIS TIME. BUILDINGS AND TOPOGRAPHIC INFORMATION WERE TAKEN FROM GUILFORD COUNTY DIGITAL PLANIMETRICS.
  13. 100-YEAR FLOOD PLAIN INFORMATION TAKEN FROM FIRM PANEL #7930. FLOOD LINE SHOWN ON MAP IS FROM AN ACTUAL FIELD SURVEY BY EVANS ENGINEERING, INC.
  14. ALL EXISTING STRUCTURES TO REMAIN.
  15. ACCESS IN AND OUT OF SITE IS CONTROLLED BY AN EXISTING LOCKABLE GATE.
  16. PERIMETER ACCESS IS CONTROLLED BY EXISTING WOODS AND FENCE.
  17. WETLANDS JURISDICTION ARE DEFINED FROM TOP-OF-BANK TO TOP-OF-BANK BY ARMY CORPS OF ENGINEERS.
  18. NO FILL PERMITTED WITHIN THE 100-YEAR FLOOD PLAIN BOUNDARY.

**PHASING DATA:**  
FORMULA: BASED ON PAST AND PROJECTED FUTURE OPERATING FIGURES FOR THIS FACILITY: (±10 TPY)(5 DAYS)(50 WEEKS) = 2,500 TPY  
5-YEAR = (2,500 TPY)(5-YEARS) = 12,500 TONS (25,000 CY)  
TOTAL ESTIMATED CUBIC YARDS IN LANDFILL = 453,031 CY  
TOTAL ESTIMATED TONNAGE IN LANDFILL = 268,518.5 TONS  
ESTIMATED LIFE SPAN OF LANDFILL = 55 YEARS  
ESTIMATED NUMBER OF 5-YEAR PHASES REMAINING = 9  
PHASE 1 = 9.7 ACRES (CLOSED)  
PHASE 2 AREA = 8.8 ACRES

PHASE 1 AND PHASE 2 WASTE VOLUME CALCULATION CHART	ACREAGE	TOTAL CAPACITY (±CY)	CURRENT CAPACITY (±CY)	STATUS	ESTIMATED COVER SOIL REQUIRED*
PHASE 1	9.7	213,380	213,380	PERMITTED	25,800 CY
PHASE 2A	5.6	25,000	27,012	PERMITTED	16,265 CY
PHASE 2B	2.4	25,000		NOT PERMITTED	8,000 CY
PHASE 2C	2.4	25,000		NOT PERMITTED	N/A
PHASE 2D	25,000			NOT PERMITTED	N/A
PHASE 2E	25,000			NOT PERMITTED	N/A
PHASE 2F	25,000			NOT PERMITTED	N/A
PHASE 2G	25,000			NOT PERMITTED	N/A
PHASE 2H	18,600			NOT PERMITTED	N/A
PHASE 2I	14,311			NOT PERMITTED	N/A
PHASE 2 TOTALS	8.8	115,740	27,012		
GRAND TOTAL	18.5	537,031			

\*COVER SOIL WILL BE FROM ON-SITE EXCAVATION AND WILL BE STOCK PILED AT VARIOUS LOCATIONS CONVENT TO OPERATIONS.  
\*\* PHASE 2 IS THE SUM OF PHASE 2A-2E

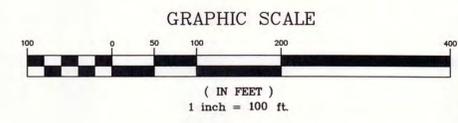
PHASE 2 DISTURBED AREA = ±8.8 ACRES  
TOTAL DISTURBED AREA = ±23.5 ACRES

**WINFREE ROAD LANDFILL**  
CONTINUATION OF PHASE 2A & PHASE 2B  
PERMIT #41-1  
7965 WINFREE ROAD  
SUMMERFIELD, NORTH CAROLINA 27358  
APPLICANT/OWNER/OPERATOR:  
WINFREE ROAD LANDFILL, INC.  
P.O. BOX 803  
SUMMERFIELD, NC 27358  
CONTACT: TIMMY FRIDDLE  
OFFICE: 336-643-3791 CELL: 336-362-2299

**Evans Engineering, Inc.**  
Engineers Surveyors Planners  
4609 Dundas Drive Greensboro, NC 27407  
Phone 336-654-8877 Fax 336-654-8877  
FIRM LICENSE #C-0168  
PROJECT: 476-01 DESIGN BY: DWS DRAWN BY: DWS  
DWS FRIDDLE/LOD-WINFREE ROAD/LOD 2016 RENEWAL/DWG

**FINAL LANDFILL GRADING & EROSION CONTROL PLAN**  
SCALE: 1" = 100' DATE: JANUARY 18, 2016  
REVISIONS:  
4-25-16: revised waste volume calculation chart per NCDEQ  
4-28-16: revised waste volume calculation chart per NCDEQ  
5-3-16: changed facility name  
SHEET NO. 1/5

- LEGEND:**
- TEMPORARY DIVERSION BERM
  - TEMPORARY SEDIMENT PIT
  - PERMANENT DIVERSION BERM
  - EXISTING CONTOURS
  - PROPOSED CONTOURS
  - DISTURBED AREA LIMIT LINE
  - EXISTING TREE LINE
  - PROPOSED TREE LINE
  - TEMPORARY SLOPE DRAIN
  - BORING / PIEZOMETER
  - BENCH MARK
  - DRAINAGE FLOW ARROW



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- LEACHATE SHALL BE PROPERLY MANAGED ON-SITE THROUGH THE USE OF CURRENT BEST MANAGEMENT PRACTICES.
- SHOULD THE DIVISION DEEM IT NECESSARY, GROUND WATER OR SURFACE WATER MONITORING, OR BOTH, MAY BE REQUIRED AS PROVIDED FOR UNDER RULES .0601 AND .0602 OF THE NORTH CAROLINA SOLID WASTE MANAGEMENT RULES.
- A SIGN SHALL BE POSTED AT THE FACILITY ENTRANCE SHOWING THE CONTACT NAME AND NUMBER IN CASE OF AN EMERGENCY AND THE PERMIT NUMBER.
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- THE FINAL SLOPE OF THE L.C.I.D. LANDFILL SHALL BE A MAXIMUM OF A 3:1 SLOPE.
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  - IF THE SITE IS DEEMED UNSUITABLE BY NORTH CAROLINA DIVISION OF SOLID WASTE MANAGEMENT, REMOVE AND PLACE SOLID WASTE IN AN APPROVED DISPOSAL SITE OR FACILITY.
  - IMPLEMENT EROSION CONTROL MEASURES BY GRADING AND SEEDING IN ACCORDANCE WITH THE PROVISIONS OF NORTH CAROLINA DIVISION OF SOLID WASTE MANAGEMENT AND GUILFORD COUNTY PLANNING AND DEVELOPMENT DEPARTMENT.
  - THE AREA MUST BE SECURED TO PREVENT FUTURE DUMPING AT THE SITE.
  - POST SIGNS INDICATING CLOSURE.
  - ESTABLISH FINAL SLOPE GRADES AT NO STEEPER THAN 3:1 SLOPE AND STABILIZE SLOPES WITH VEGETATIVE COVER OR MECHANICAL METHODS.
- \* GUILFORD COUNTY REGULATIONS REQUIRE TWO (2) FEET OF FINAL SOIL COVER.

**WINFREE ROAD LANDFILL, INC.**  
PRIVATE  
LAND CLEARING & INERT DEBRIS LANDFILL  
PERMIT NUMBER:  
APPROVED DISPOSAL MATERIALS:  
LAND CLEARING WASTE, CONCRETE, BRICK,  
CONCRETE BLOCK, UNCONTAMINATED SOIL, GRAVEL  
AND ROCK, UNTREATED AND UNPAINTED WOOD,  
AND YARD TRASH. YARD TRASH IS DEFINED AS SOLID WASTE  
RESULTING FROM LANDSCAPING AND YARD MAINTENANCE  
SUCH AS GRASS, TREE LIMBS AND SIMILAR MATERIAL.

HOURS OF OPERATION:  
6:00 AM. - 7:00 PM, MONDAY - FRIDAY

EMERGENCY CONTACT PERSON:  
JERRY FRIDDLE - (336) 643-3791

NO UNAUTHORIZED DUMPING

ENTRANCE SIGN DETAIL  
NOT TO SCALE

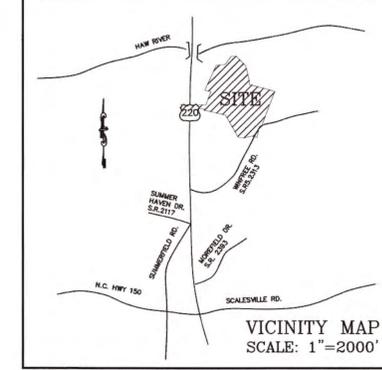


**NOTES:**

- GROUND WATER INFORMATION OBTAINED FROM HYDROGEOLOGIC ASSESSMENT REPORT BY ECS, LTD. DATED 11-12-2001

**LEGEND:**

- TEMPORARY DIVERSION BERM
- TEMPORARY SEDIMENT PIT
- PERMANENT DIVERSION BERM
- EXISTING CONTOURS
- PROPOSED CONTOURS
- DISTURBED AREA LIMIT LINE
- EXISTING TREE LINE
- PROPOSED TREE LINE
- TEMPORARY SLOPE DRAIN
- BORING / PIEZOMETER
- BENCH MARK
- DRAINAGE FLOW ARROW



**SITE DATA:**

- TOTAL AREA = 43.54 ACRES
- TAX MAP NO.: ACL-1-39-915N-2
- CURRENT ZONING: AG-SP (CASE # 31-97-SP)
- DEED REFERENCE: DB, 4530, PG. 0585
- SOIL TYPES: C6B2 - CECIL SANDY CLAY LOAM  
Ch - CHEWACLA SANDY LOAM  
Wc - WILKES SANDY LOAM  
WkE - WILKES SANDY LOAM  
McC - MADISON SANDY LOAM
- TOTAL L.C.I.D. LANDFILL AREA = ±21.5 ACRES
- TOTAL L.C.I.D. LANDFILL VOLUME = XXX,XXX CF
- DISTURBED AREA = ±23.5 ACRES
- USE AFTER COMPLETION = PASTURE
- DISTANCE TO FLOODWAY = 0'
- WATERSHED = UNPROTECTED
- BOUNDARY INFORMATION WAS TAKEN FROM DEEDS. NO FIELD RUN BOUNDARY HAS BEEN PERFORMED BY EVANS ENGINEERING AT THIS TIME.
- 100-YEAR FLOOD PLAN INFORMATION TAKEN FROM FIRM PANEL #7930. FLOOD LINE SHOWN ON MAP IS FROM AN ACTUAL FIELD SURVEY BY EVANS ENGINEERING, INC.
- ALL EXISTING STRUCTURES TO REMAIN.
- ACCESS IN AND OUT OF SITE IS CONTROLLED BY AN EXISTING LOCKABLE GATE.
- PERMETER ACCESS IS CONTROLLED BY EXISTING WOODS AND FENCE.
- METLANDS JURISDICTION ARE DEFINED FROM TOP-OF-BANK TO TOP-OF-BANK BY ARMY CORPS OF ENGINEERS.
- NO FILL PERMITTED WITHIN THE 100-YEAR FLOOD PLAIN BOUNDARY.

**PHASING DATA:**

FORMULA: BASED ON PAST AND PROJECTED FUTURE OPERATING FIGURES FOR THIS FACILITY: ((10 TPD)(5 DAYS)(50 WEEKS) = 2,500 TPY)

5-YEAR = (2,500 TPY)(5-YEARS) = 12,500 TONS (25,000 CY)  
TOTAL ESTIMATED CUBIC YARDS IN LANDFILL = 453,031 CY  
TOTAL ESTIMATED TONNAGE IN LANDFILL = 268,515.5 TONS  
ESTIMATED LIFE SPAN OF LANDFILL = 55 YEARS  
ESTIMATED NUMBER OF 5-YEAR PHASES REMAINING = 9  
PHASE 1 = 9.7 ACRES (CLOSED)  
PHASE 2 AREA = 8.8 ACRES

PHASE 1 AND PHASE 2 WASTE VOLUME CALCULATION CHART					
PHASE	ACREAGE	TOTAL CAPACITY (±CY)	CURRENT CAPACITY (±CY)	STATUS	ESTIMATED COVER SOIL REQUIRED* (CY)
PHASE 1	9.7	213,380	213,380	PERMITTED	25,800
PHASE 2A	5.6	25,000	27,012	PERMITTED	16,265
PHASE 2B	2.4	25,000		NOT PERMITTED	8,000
PHASE 2C	25,000			NOT PERMITTED	N/A
PHASE 2D	25,000			NOT PERMITTED	N/A
PHASE 2E	25,000			NOT PERMITTED	N/A
PHASE 2F	25,000			NOT PERMITTED	N/A
PHASE 2G	25,000			NOT PERMITTED	N/A
PHASE 2H	18,600			NOT PERMITTED	N/A
PHASE 2I	14,311			NOT PERMITTED	N/A
PHASE 2 TOTALS	8.8	115,740	27,012	NOT PERMITTED	N/A
GRAND TOTAL	18.5	537,031			

\*COVER SOIL WILL BE FROM ONSITE EXCAVATION AND WILL BE STOCK PILED AT VARIOUS LOCATIONS CONVENIENT TO OPERATIONS.  
\*\* PHASE 2 IS THE SUM OF PHASE 2A-2I

**WINFREE ROAD LANDFILL**  
CONTINUATION OF PHASE 2A & PHASE 2B  
PERMIT #41-1  
7965 WINFREE ROAD  
SUMMERFIELD, NORTH CAROLINA 27358

APPLICANT/OWNER/OPERATOR:  
WINFREE ROAD LANDFILL, INC.  
P.O. BOX 603  
SUMMERFIELD, NC 27358  
CONTACT: TRAM FRIDDLE  
OFFICE: 336-643-3791 CELL: 336-362-2299

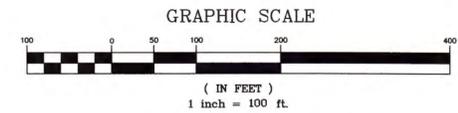
**Evans Engineering, Inc.**  
Engineers Surveyors Planners  
4609 Duxdale Drive Greensboro, NC 27407  
Phone: 336-654-8877 Fax: 336-654-8876  
FIRM LICENSE #C-0168

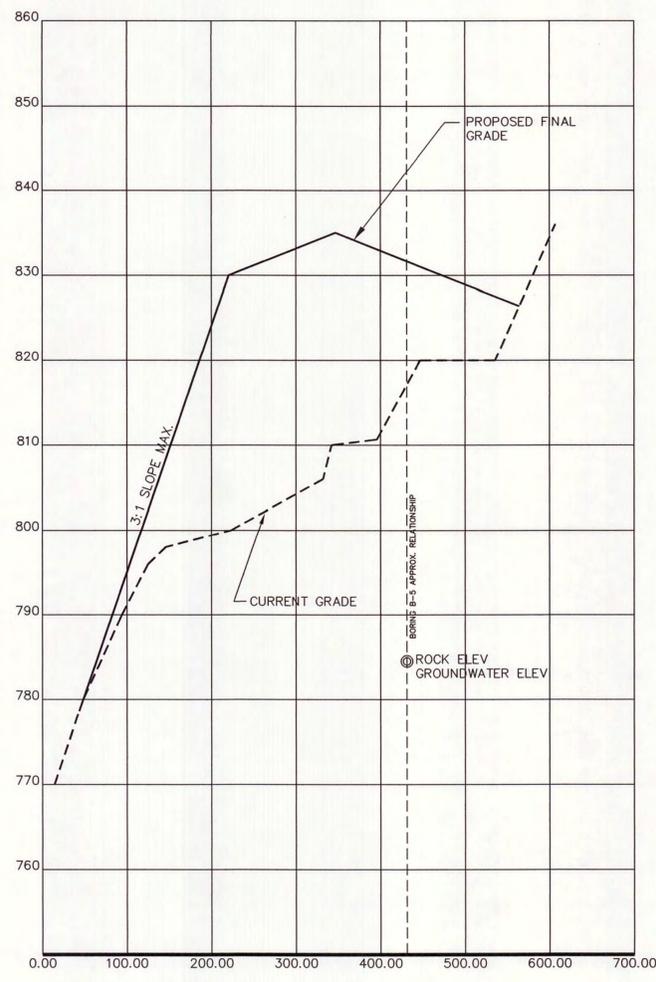
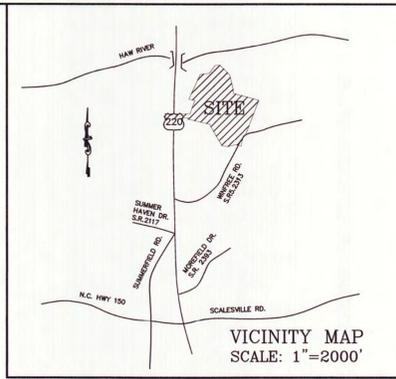
PROJECT: 476-01 DESIGN BY: DWS DRAWN BY: DWS  
DWG: FRODLE/LCD-WINFREE ROAD/LCD 2016 RENEWAL.DWG

**PHASE 2B FILL AND EROSION CONTROL PLAN**  
SCALE: 1"= 100' DATE: JANUARY 18, 2016

REVISIONS:  
4-25-16: revised waste volume calculation chart per NCDEQ  
4-28-16: revised waste volume calculation chart per NCDEQ  
5-3-16: changed facility name

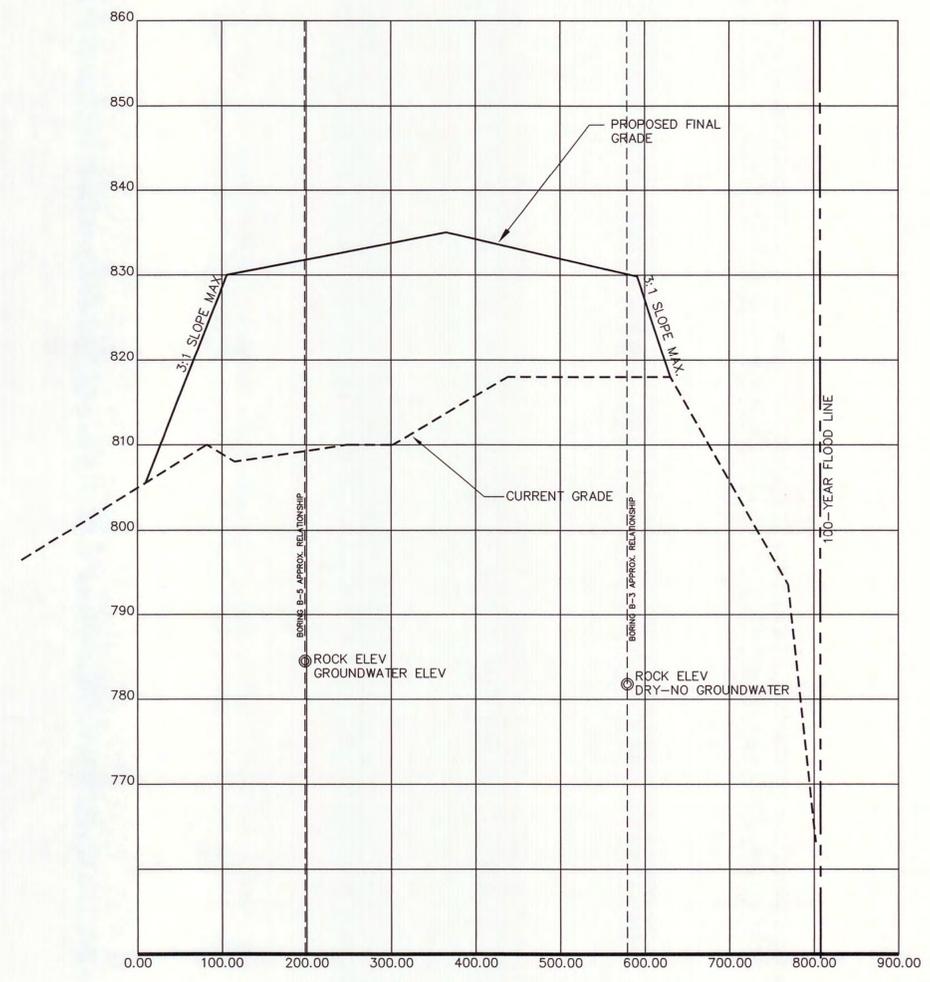
SHEET NO. 2 OF 5





WEST | EAST

**SECTION A - A**  
 SCALES: HORIZONTAL: 1" = 100'  
 VERTICAL: 1" = 10'



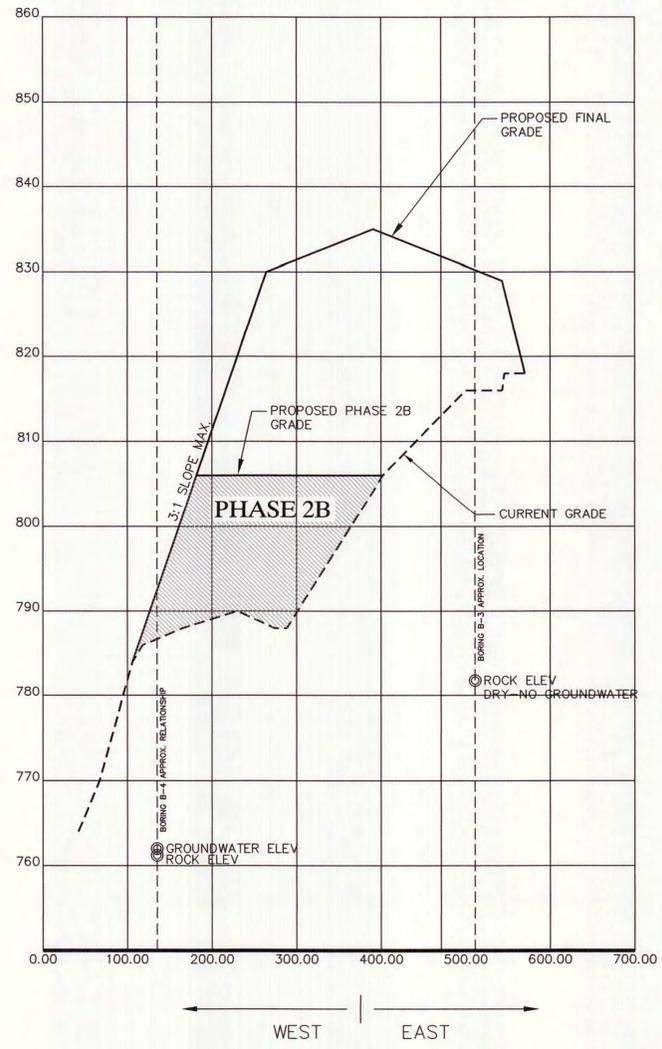
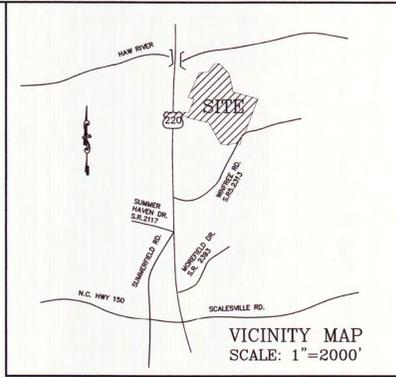
SOUTH | NORTH

**SECTION B - B**  
 SCALES: HORIZONTAL: 1" = 100'  
 VERTICAL: 1" = 10'

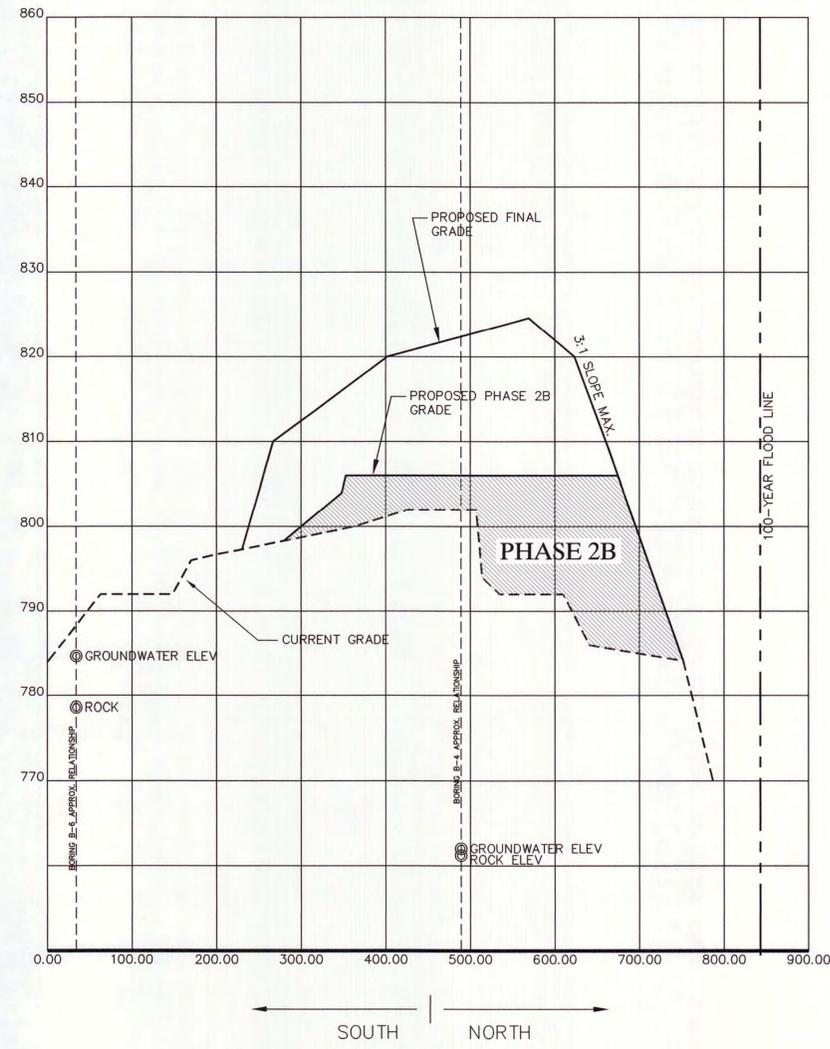


NOTES:  
 1. GROUND WATER INFORMATION OBTAINED FROM HYDROGEOLOGIC ASSESSMENT REPORT BY ECS, LTD. DATED 11-12-2001

<b>WINFREE ROAD LANDFILL</b> CONTINUATION OF PHASE 2A & PHASE 2B PERMIT #41-1 7965 WINFREE ROAD SUMMERFIELD, NORTH CAROLINA 27358			
APPLICANT/OWNER/OPERATOR: WINFREE ROAD LANDFILL, INC. P.O. BOX 603 SUMMERFIELD, NC 27358 CONTACT: TIMMY FRIDDLE OFFICE: 336-643-3791 CELL: 336-362-2299			
Evans Engineering, Inc. — Since 1974 — Engineers Surveyors Planners 4609 Dundas Drive Greensboro, NC 27407 Phone: 336-854-4877 Fax: 336-854-8870 FIRM LICENSE #C-0168			
PROJECT: 476-01 DESIGN BY: DWS DRAWN BY: DWS DWG: FRIDDLE\LOD-WINFREE ROAD\LOD 2016 RENEWAL.DWG			
<b>SECTION A-A</b> <b>SECTION B-B</b>			
SCALE: HORIZONTAL 1"= 100', VERTICAL 1"=10' DATE: JANUARY 18, 2016			
REVISIONS: 4-25-16: revised waste volume calculation chart per NCDEQ 4-28-16: revised waste volume calculation chart per NCDEQ 5-3-16: changed facility name	SHEET NO: <table border="1" style="width: 30px; height: 30px;"> <tr> <td style="text-align: center; vertical-align: middle;">3</td> <td style="text-align: center; vertical-align: middle;">5</td> </tr> </table>	3	5
3	5		



**SECTION C - C**  
 SCALES: HORIZONTAL: 1" = 100'  
 VERTICAL: 1" = 10'



**SECTION D - D**  
 SCALES: HORIZONTAL: 1" = 100'  
 VERTICAL: 1" = 10'

**WINFREE ROAD LANDFILL**  
 CONTINUATION OF PHASE 2A & PHASE 2B  
 PERMIT #41-1  
 7965 WINFREE ROAD  
 SUMMERFIELD, NORTH CAROLINA 27358

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 Engineers Surveyors Planners  
 4609 Dundas Drive Greensboro, NC 27407  
 Phone 336-854-4877 Fax 336-854-8674  
 FIRM LICENSE #C-0168

PROJECT: 476-01 DESIGN BY: DWS DRAWN BY: DWS  
 DWG: FRIDDLE\LOD-WINFREE ROAD\LOD 2016 RENEWAL.DWG

SHEET DESCRIPTION:  
**SECTION C-C**  
**SECTION D-D**  
 SCALE: HORIZONTAL 1"= 100'; VERTICAL 1"=10' DATE: JANUARY 18, 2016

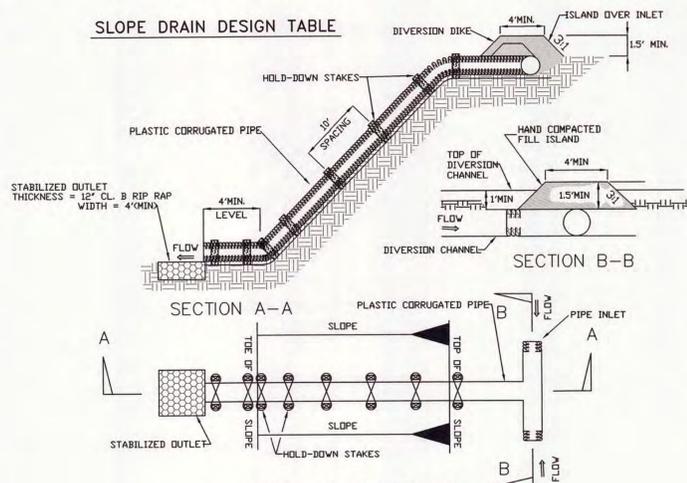
REVISIONS:  
 4-25-16: revised waste volume calculation chart per NCDEQ  
 4-28-16: revised waste volume calculation chart per NCDEQ  
 5-3-16: changed facility name

SHEET NO.: 4/5



NOTES:  
 1. GROUND WATER INFORMATION OBTAINED FROM HYDROGEOLOGIC ASSESSMENT REPORT BY ECS, LTD. DATED 11-12-2001

**SLOPE DRAIN DESIGN TABLE**



**TEMPORARY SLOPE DRAIN**  
NTS

10-YR STORM Q = 5.75	SLOPE DRAIN CALC'S		n = 0.024 c = 0.35
SLOPE DRAIN #	DRAIN AREA	Q10	USE
2	1.4 AC	2.8 CFS	18" Ø 0.50% = 4.02 CFS
3	0.6 AC	1.2 CFS	12" Ø 0.50% = 1.4 CFS
4	0.6 AC	1.2 CFS	12" Ø 0.50% = 1.4 CFS

**EROSION CONTROL NOTES:**

- SOIL EROSION CONTROL DEVICES MUST BE INSTALLED INITIALLY AFTER THE GRADING PERMIT IS ISSUED AND ROUGH GRADING STARTS. PLANNING AND DEVELOPMENT STAFF WILL CHECK THESE DEVICES FOR PROPER INSTALLATION AND COMPLIANCE WITH THIS PLAN. A CERTIFICATE OF PERFORMANCE WILL BE ISSUED.
- DURING THE DEVELOPMENT OF THIS SITE, THE PERSON RESPONSIBLE FOR THE LAND-DISTURBING ACTIVITY SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR BY ANY PROVISION OF THE GUILFORD COUNTY DEVELOPMENT ORDINANCE. ADDITIONAL DEVICES WILL BE REQUIRED IF NECESSARY.
- UNDER THE GUILFORD COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE (SECTION 19); AGENTS, OFFICIALS, OR OTHER QUALIFIED PERSONS ARE AUTHORIZED TO PERIODICALLY INSPECT THE SITES OF LAND-DISTURBING ACTIVITIES. OBSTRUCTING, HAMPERING OR INTERFERING WITH SUCH INSPECTIONS CARRIES A \$500 PER DAY CIVIL PENALTY. THE INSTIGATION OF THIS CIVIL PENALTY REQUIRES NO PRIOR NOTICE.
- NO LAND-DISTURBING ACTIVITY SHALL BE PERMITTED IN PROXIMITY TO A LAKE OR NATURAL WATERCOURSE UNLESS A BUFFER ZONE IS PROVIDED ALONG THE MARGIN OF THE WATER BODY OF SUFFICIENT WIDTH TO CONFINE VISABLE SILTATION WITHIN THE TWENTY-FIVE PERCENT OF THE BUFFER ZONE NEAREST THE LAND-DISTURBING ACTIVITY.
- CONSTRUCTION ACTIVITIES DISTURBING FIVE OR MORE ACRES WILL BE ISSUED A NPDES STORMWATER DISCHARGE PERMIT AS REQUIRED BY THE FEDERAL CLEAN WATER ACT. SECTION B OF THIS PERMIT REQUIRES THE PERMITEE TO PERIODICALLY INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES AND TO KEEP A RECORD OF THESE INSPECTIONS.
- IF FILL MATERIALS ARE BEING BROUGHT ONTO THIS PROPERTY OR IF WASTE MATERIALS ARE TAKEN FROM THIS PROJECT, THIS INFORMATION MUST BE DISCLOSED AND SHOWN ON THE EROSION CONTROL AND GRADING PLAN. BORROW AREAS AND DUMP SITES ARE CONSIDERED TO BE PART OF THIS SITE. (THIS NOTES PERTAINS TO THE CLOSING OF THIS DUMP SITE.)
- THE DEADLINES FOR THE ESTABLISHMENT OF GROUND COVER SHALL BE 15 WORKING DAYS AND 30 CALENDAR DAYS FOR TEMPORARY GROUND COVER (SLOPES) AND 15 WORKING DAYS AND 90 CALENDAR DAYS FOR PERMANENT GROUND COVER.

**TEMPORARY SEEDING SPECIFICATIONS**

**DEFINITION:**  
SEEDING DISTURBED AREAS WITH ANNUAL GRASSES OR LEGUMES TO PROVIDE TEMPORARY GROUND COVER TO LESSEN SOIL EROSION.

**PURPOSE:**  
TO TEMPORARILY STABILIZE GRADED CUT AND FILL SLOPES THAT CANNOT BE SEEDED WITH PERMANENT VEGETATION WITHIN THIRTY DAYS AFTER COMPLETION.

TO TEMPORARILY STABILIZE GRADED AREAS OF BARE SOIL WHERE PERMANENT VEGETATIVE COVER IS NOT NEEDED OR WHERE GRADING HAS NOT BEEN COMPLETED AND PERMANENT SEEDING WILL BE DONE LATER.

**CONDITIONS WHERE PRACTICE APPLIES:**  
WHERE BARE SOIL HAS BEEN EXPOSED BY GRADING, AND VEGETATIVE COVER IS NEEDED FOR ONE YEAR OR LESS. MAY INCLUDE SUCH AREAS AS TEMPORARY SEDIMENT POND, DIVERSIONS, SOIL STOCKPILES, BUILDING PADS, ROUGH-GRADED ROAD BANKS, ETC. IT IS ALSO USED TO PROVIDE A TEMPORARY PERIMETER BUFFER.

**PREPARATION:**  
PREPARE SEEDBED BY RIPPING, CHISELING, HARROWING, OR PLOWING TO A DEPTH OF AT LEAST SIX INCHES SO AS TO PRODUCE A LOOSE, FRIABLE SURFACE. INCORPORATE 750-1,000 POUNDS 10-10-10 FERTILIZER AND UP TO TWO TONS OF DOLOMITIC LIME PER ACRE (NOTE: LIME MAY NOT BE NEEDED IF A SOIL TEST INDICATES A PH OF 6.5 OR HIGHER). MULCHING IS REQUIRED ACCORDING TO THE SAME SPECIFICATIONS AS FOR PERMANENT SEEDING UNLESS WAIVED BY SOIL SCIENTIST. SELECT SEEDING MIXTURE AND BEST PLANTING DATES FROM TABLE 12 (BELOW).

TABLE 12  
TEMPORARY SEEDING

SEEDING MIXTURE	SEEDING RATE (LB/ACRE)	PLANTING DATES
RYE GRASS	120 LBS	JAN. 1 - MAY 1
KOBE LESPEDEZA	50 LBS	JAN. 1 - MAY 1
GERMAN MILLET OR SUDAN GRASS	40-50 LBS	MAY 1 - AUG. 15
RYE (GRAIN) (MAY SUBSTITUTE OATS BEFORE OCT. 1 OR WHEAT FROM OCT. 1-NOV. 15)	120 LBS	AUG. 15 - DEC. 30
ANNUAL RYEGRASS	40 LBS	AUG. 15 - NOV. 30
*WEEPING LOVEGRASS	5 LBS	MAY 1 - AUG. 15

\*WEEPING LOVEGRASS IS A PERENNIAL GRASS BUT IS INCLUDED HERE BECAUSE OF ITS ADAPTABILITY TO POOR SOIL CONDITIONS AND DROUGHTY SITES.

**CONSTRUCTION SEQUENCE FOR PHASE 1:**

- CLEAR AND GRUB AS NEEDED.
- CONSTRUCT TEMP. SED. PITS 'A', 'B', AND 'C' AS SHOWN ON PLAN.
- CONSTRUCT TEMP. DIVERSION BERMS TO TEMP. SED. PITS 'A', 'B', AND 'C' AS SHOWN ON PLANS.
- EXCAVATE AS NEEDED.
- BACKFILL WITH L.C.I.D. MATERIAL WITHIN LIMITS SHOWN.
- AS FILL IS BEING PLACED- BE SURE THAT FILL SLOPES DO NOT EXCEED A 3:1 SLOPE.
- COVER L.C.I.D. MATERIAL AS REQUIRED.
- SEED SLOPES AND/OR TOP AS REQUIRED.

**PERMANENT SEEDING SPECIFICATIONS**

**DEFINITION:**  
SEEDING DISTURBED AREAS WITH PERENNIAL GRASSES OR LEGUMES TO PROVIDE PERMANENT VEGETATIVE COVER TO LESSEN RUNOFF AND SOIL EROSION.

**PURPOSE:**  
TO LESSEN SOIL EROSION AND PERMANENTLY STABILIZE DISTURBED AREAS CREATED BY GRADING OF CONSTRUCTION SITES.

**CONDITIONS WHERE PRACTICE APPLIES:**  
ALL BARE AREAS ON CONSTRUCTION SITES WHICH ARE NOT COVERED BY STRUCTURES OR OTHER EROSION CONTROL DEVICES.

**PREPARATION:**  
PREPARE SEEDBED BY RIPPING, CHISELING, HARROWING, OR PLOWING TO A DEPTH OF AT LEAST SIX INCHES SO AS TO PRODUCE A LOOSE, FRIABLE SURFACE. REMOVE ALL STONES, BOULDERS, STUMPS OR DEBRIS FROM THE SURFACE WHICH WOULD PROHIBIT GERMINATION OR PLANT GROWTH.

INCORPORATE INTO THE SOIL 800 TO 1,000 POUNDS OF 10-10-10 FERTILIZER PLUS 500 POUNDS OF TWENTY PERCENT (20%) SUPERPHOSPHATE PER ACRE AND TWO TONS OF DOLOMITIC LIME PER ACRE UNLESS SOIL TESTS INDICATED THAT A LOWER RATE OF LIME CAN BE USED.

MULCH AFTER SEEDING WITH 1.5 TONS OF GRAIN STRAW PER ACRE AND EITHER CRIMP STRAW INTO SOIL OR TACK WITH LIQUID ASPHALT AT 400 GALLONS PER ACRE OR AMULSIFIED ASPHALT AT 300 GALLONS PER ACRE.

SELECT SEEDING MIXTURE AND BEST PLANTING DATES FROM TABLE 13.

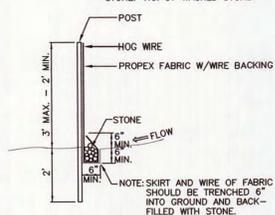
TABLE 13  
PERMANENT SEEDING

SEEDING MIXTURE	SEEDING RATE (LB/ACRE)	PLANTING DATES
TALL FESCUE (LOW MAINTENANCE)	100 - 150 LBS	AUG. 15 - OCT. 15 FEB. 15 - MAY 1
TALL FESCUE- WATERWAYS AND LAWNS (HIGH MAINTENANCE)	200 - 250 LBS	AUG. 15 - OCT. 15 FEB. 15 - MAY 1
BLEND OF TWO TURF-TYPE TALL FESCUES (90%) AND TWO OR MORE IMPROVED KENTUCKY BLUEGRASS VARIETIES (10%) (HIGH MAINTENANCE)	200 - 250 LBS	AUG. 15 - OCT. 15 FEB. 15 - MAY 1
TALL FESCUE AND KOBE OR KOREAN LESPEDEZA*	100 LBS 20 - 25 LBS	FEB. 15 - MAY 1 AUG. 15 - OCT. 15
TALL FESCUE AND SERICEA LESPEDEZA	50 LBS 60 LBS	NOV. 1 - FEB. 1 (UNSCARIFIED)
TALL FESCUE AND GERMAN MILLET OR SUNDANGRASS**	60 LBS 30 LBS	JULY AND AUGUST
TALL FESCUE AND RYEGRASS**	70 LBS 25 LBS	NOV. 1 - JAN. 30
COMMON BERMU DAGRASS	8 LBS (HULLED) 15 - 20 LBS	APRIL 15 - JUNE 30 FEB. 1 - MARCH 30

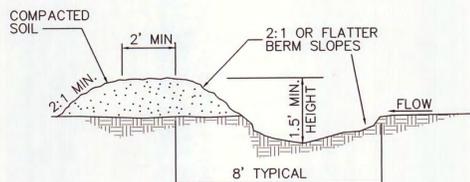
\* FOR SPRING SEEDINGS, USE SCARIFIED LESPEDEZA SEED. FOR LATE FALL AND WINTER SEEDINGS, USE UNSCARIFIED SEED.

\*\* ANNUALS SUCH AS MILLET, SUNDANGRASS AND RYEGRASS MUST BE KEPT AT 10-12" MAXIMUM HEIGHT.

POST: METAL, 6" LONG, TRIANGLE STEP  
MAX. SPACING OF POSTS: 8' O.C.  
WIRE: 32" MIN. WIDTH HOG WIRE LINE  
WIRE TO BE 10 GAUGE.  
FABRIC: 100L. FABRIC W/ WIRE BACKING  
STONE: NO. 57 WASHED STONE



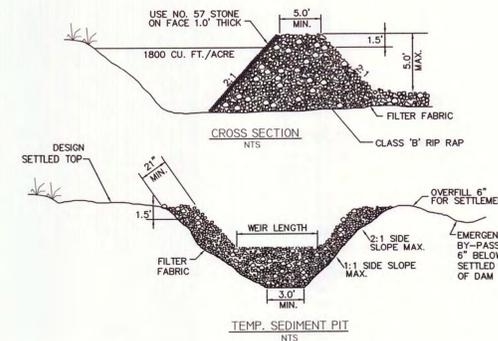
(IF NEEDED)  
**SILT FENCE DETAIL**  
NTS



NOTE: DIVERSIONS MUST BE MAINTAINED.

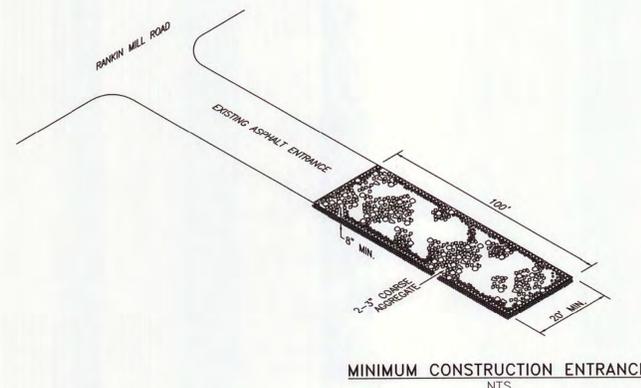
**DIVERSION BERM**

SCALE: NOT TO SCALE



TEMPORARY SEDIMENT PIT DESIGN

PIT #	DRAIN	DIST.	(CF) RED'D.	(CF) PROV'D.	BOTTOM DIM.	WEIR
B	3.4 AC	3.4 AC	6,120	6,432	L=56', W=20' 3' DEEP	10'
C	2.0 AC	2.0 AC	3,600	3,696	L=40', W=20' 3' DEEP	6'
E	3.0 AC	3.0 AC	5,400	5,676	L=52', W=26' 3' DEEP	8'
F	4.4 AC	4.4 AC	7,920	8,088	L=64', W=32' 3' DEEP	12'



**MINIMUM CONSTRUCTION ENTRANCE**  
NTS

**WINFREE ROAD LANDFILL**  
CONTINUATION OF PHASE 2A & PHASE 2B  
PERMIT #41-1  
7965 WINFREE ROAD  
SUMMERFIELD, NORTH CAROLINA 27358

APPLICANT/OWNER/OPERATOR:  
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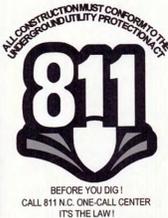
PROJECT: 476-01 DESIGN BY: DWS DRAWN BY: DWS  
DWG: FRIDDLE/LOD-WINFREE ROAD/LOD 2016 RENEWAL/DWS

**DETAIL SHEET**

SCALE: NONE DATE: JANUARY 18, 2016

REVISIONS:  
4-25-16: revised waste volume calculation chart per NCDEQ  
4-28-16: revised waste volume calculation chart per NCDEQ  
5-3-16: changed facility name

SHEET NO. 5



Applicant Signature Page

Name of Facility WINFREE ROAD LANDFILL PERMIT #41I-LCID

I certify that I have read and understand this application and that the information provided is true, accurate, and complete to the best of my knowledge.

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars (\$15,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this solid waste management facility will be required to comply with all such revisions or amendments.

Timmy W. Friddle  
Signature

TIMMY FRIDDLE  
Print Name

5/3/16  
Date

VICE PRESIDENT

Title

WINFREE ROAD LANDFILL, INC

Business or Organization Name